

TIME OF YEAR	CE	6th Grade Math ~ Grade Level Content Expectations	Domain	Strand
	N.FL.06.09	integers using the related facts. Use the number line and chip models for addition and subtraction.*	Add and subtract integers and rational numbers	Number and Operations
October	N.FL.06.10 +	Add, subtract, multiply and divide positive rational numbers fluently.	Add and subtract integers and rational numbers	Number and Operations
NOV/ Rev. MAR	N.MR.06.08 +	Understand integer subtraction as the inverse of integer addition. Understand integer division as the inverse of integer multiplication.*	Add and subtract integers and rational numbers	Number and Operations
NOV/ Rev. MAY	N.ME.06.11 +	Find equivalent ratios by scaling up or scaling down.	Find equivalent ratios	Number and Operations
JAN	N.FL.06.02 +	Given an applied situation involving dividing fractions, write a mathematical statement to represent the situation.	Multiply and divide fractions	Number and Operations
JAN	N.FL.06.04 +	Multiply and divide any two fractions, including mixed numbers, fluently.	Multiply and divide fractions	Number and Operations
JAN	N.MR.06.01 +	Understand division of fractions as the inverse of multiplication, e.g., if $4/5 + 2/3 = \square$, then $2/3 \times \square = 4/5$, so $\square = 4/5 \div 2/3 = 12/10$.	Multiply and divide fractions	Number and Operations
	N.MR.06.03	Solve for the unknown in equations such as: $1/4 \div \square = 1$, $3/4 \div \square = 1/4$, and $1/2 = 1 \times \square$.	Multiply and divide fractions	Number and Operations
	N.ME.06.05	Order rational numbers and place them on the number line.	Represent rational numbers as fractions or decimals	Number and Operations
	N.ME.06.06	Represent rational numbers as fractions or terminating decimals when possible, and translate between these representations.	Represent rational numbers as fractions or decimals	Number and Operations
	N.ME.06.07	Understand that a fraction or a negative fraction is a quotient of two integers, e.g., $-8/3$ is -8 divided by 3 .	Represent rational numbers as fractions or decimals	Number and Operations
	N.FL.06.12	Calculate part of a number given the percentage and the number.	Solve decimal, percentage and rational number problems	Number and Operations
Nov/Dec/Jan/Feb	N.FL.06.14 +	For applied situations, estimate the answers to calculations involving operations with rational numbers.	Solve decimal, percentage and rational number problems	Number and Operations
FEB	N.FL.06.15 +	Solve applied problems that use the four operations with appropriate decimal numbers.	Solve decimal, percentage and rational number problems	Number and Operations
FEB	N.MR.06.13 +	Solve contextual problems involving percentages such as sales taxes and tips.*	Solve decimal, percentage and rational number problems	Number and Operations
NOV/ Rev. MAR	N.ME.06.17 +	Locate negative rational numbers (including integers) on the number line; know that numbers and their negatives add to 0, and are on opposite sides and at equal distance from 0 on a number line.	Understand rational numbers and their location on the number line	Number and Operations

	N.ME.06.18	Understand that rational numbers are quotients of integers (non zero denominators), e.g., a rational number is either a fraction or a negative fraction.	Understand rational numbers and their location on the number line	Number and Operations
	N.ME.06.19	Understand that 0 is an integer that is neither negative nor positive.	Understand rational numbers and their location on the number line	Number and Operations
	N.ME.06.20	Know that the absolute value of a number is the value of the number ignoring the sign; or is the distance of the number from 0.	Understand rational numbers and their location on the number line	Number and Operations
	N.ME.06.16	Understand and use integer exponents, excluding powers of negative bases; express numbers in scientific notation.*	Use exponents	Number and Operations
MAY	M.UN.06.01 +	Convert between basic units of measurement within a single measurement system, e.g., square inches to square feet.	Convert within measurement systems	Measurement
MAY	M.PS.06.02 +	Draw patterns (of faces) for a cube and rectangular prism that, when cut, will cover the solid exactly (nets).	Find volume and surface area	Measurement
MAY	M.TE.06.03 +	Compute the volume and surface area of cubes and rectangular prisms given the lengths of their sides, using formulas.	Find volume and surface area	Measurement
	G.SR.06.05	perpendicular lines, midpoints of line segments and angle bisectors; justify informally.	Construct geometric shapes	Geometry
	G.GS.06.01	Understand and apply basic properties of lines, angles, and triangles, including: <ul style="list-style-type: none"> • triangle inequality • relationships of vertical angles, complementary angles, supplementary angles • congruence of corresponding and alternate interior angles when parallel lines - are cut by a transversal, and that such congruencies imply parallel lines • locate interior and exterior angles of any triangle, and use the property that an exterior - angle of a triangle is equal to the sum of the remote (opposite) interior angles • know that the sum of the exterior angles of a convex polygon is 360° 	Understand and apply basic properties	Geometry
APR	G.GS.06.02 +	Understand that for polygons, congruence means corresponding sides and angles have equal measures.	Understand the concept of congruence and basic transformations	Geometry
APR	G.TR.06.03 +	Understand the basic rigid motions in the plane (reflections, rotations, translations), relate these to congruence, and apply them to solve problems.	Understand the concept of congruence and basic transformations	Geometry
	G.TR.06.04	Understand and use simple compositions of basic rigid transformations, e.g., a translation followed by a reflection.	Understand the concept of congruence and basic transformations	Geometry
OCT/ May	D.PR.06.01 +	Express probabilities as fractions, decimals, or percentages between 0 and 1; know that 0 probability means an event will not occur and that probability 1 means an event will occur.	Understand the concept of probability and solve problems	Data and Probability

	D.PR.06.02	Compute probabilities of events from simple experiments with equally likely outcomes, e.g., tossing dice, flipping coins, spinning spinners, by listing all possibilities and finding the fraction that meets given conditions.	Understand the concept of probability and solve problems	Data and Probability
MAR	A.PA.06.01 +	Solve applied problems involving rates including speed, e.g., if a car is going 50 mph, how far will it go in 3 1/2 hours?	Calculate rates	Algebra
	A.PA.06.09	write the equation; graph the resulting ordered pairs of integers, e.g., given c chairs, the "leg function" is $4c$; if you have 5 chairs, how many legs?; if you have 12 legs, how many chairs?*	Represent linear functions using tables, equations, and graphs	Algebra
	A.RP.06.08	Understand that relationships between quantities can be suggested by graphs and tables.	Represent linear functions using tables, equations, and graphs	Algebra
	A.RP.06.10	descriptions, formulas or equations, tables, and graphs, e.g., perimeter-side relationship for a square, distance-time graphs, and conversions such as feet to inches.	Represent linear functions using tables, equations, and graphs	Algebra
FEB/ MAR	A.FO.06.11 +	Relate simple linear equations with integer coefficients, e.g., $3x = 8$ or $x + 5 = 10$, to particular contexts and solve.*	Solve equations	Algebra
MAR	A.FO.06.12 +	Understand that adding or subtracting the same number to both sides of an equation creates a new equation that has the same solution.	Solve equations	Algebra
MAR	A.FO.06.13 +	same non-zero number creates a new equation that has the same solutions.	Solve equations	Algebra
	A.FO.06.14	positive integer coefficients less than 20, use calculators otherwise, and interpret the results.	Solve equations	Algebra
MAR and May	A.RP.06.02 +	Plot ordered pairs of integers and use ordered pairs of integers to identify points in all four quadrants of the coordinate plane.	Understand the coordinate plane	Algebra
Feb / Mar	A.FO.06.03 +	Use letters, with units, to represent quantities in a variety of contexts, e.g., y lbs., k minutes, x cookies.	Use variables, write expressions and equations, and combine like terms	Algebra
	A.FO.06.04	Distinguish between an algebraic expression and an equation.	Use variables, write expressions and equations, and combine like terms	Algebra
	A.FO.06.05	Use standard conventions for writing algebraic expressions, e.g., $2x + 1$ means "two times x, plus 1" and $2(x + 1)$ means "two times the quantity (x + 1)."	Use variables, write expressions and equations, and combine like terms	Algebra
Mar	A.FO.06.06 +	Represent information given in words using algebraic expressions and equations.	Use variables, write expressions and equations, and combine like terms	Algebra
	A.FO.06.07	Simplify expressions of the first degree by combining like terms, and evaluate using specific values.	Use variables, write expressions and equations, and combine like terms	Algebra